Contents

Azuma, T., s. Sakaguchi, M., et al. 263

Bennett, J. W., s. Hales, J. R. S., et al. 55

Berdina, N. A., Kots, J. M., Rodionov, I. M., Tkhorevsky, V. I., Vinogradova, O. L., Vishnevetskaya, M. A.
Cholinergic and Adrenergic Influences Upon Cat Skeletal Muscle Performance Induced by Stimulation of the Anterior Hypothalamus 149

Binkhorst, R. A., s. Hulsbosch, M. A. M., et al. 85

Birkenfeld, G., s. Schad, H., et al. 121

Brechtelsbauer, H., s. Schad, H. 127

Brechtelsbauer, H., s. Schad, H., et al. 121

Bursaux, E., Poyart, C., Guesnon, P., Teisseire, B.
Comparative Effects of CO_2 on the Affinity for O_2 of Fetal and Adult Erythrocytes 197

Cooper, K. E., s. Vaughn, L. K., et al. 185

Curci, S., s. Edelman, A., et al. 37

Edelman, A., Curci, S., Samaržija, I., Frömter, E.
Determination of Intracellular K^+ Activity in Rat Kidney Proximal Tubular Cells 37

Edvinsson, L., s. MacKenzie, E. T., et al. 189

Epstein, F. H., s. Eveloff, J., et al. 87

Eveloff, J., Kinne, R., Kinne-Saffran, E., Murer, H., Silva, P., Epstein, F. H., Stoff, J., Kinter, W. B.
Coupled Sodium and Chloride Transport into Plasma Membrane Vesicles Prepared from Dogfish Rectal Gland 87

Fawcett, A. A., s. Hales, J. R. S., et al. 55

Fitch, W., s. MacKenzie, E. T., et al. 189

Flowaczny, H., s. Schad, H., et al. 121

Folgering, H. Th., s. Hulsbosch, M. A. M., et al. 85

Frömter, E., s. Edelman, A., et al. 37

Frömter, E., s. Suzuki, K., et al. 141

Fromm, M., Hegel, U.
Segmental Heterogeneity of Epithelial Transport in Rat Large Intestine 71

Gay, L. A., Stanfield, P. R.:
The Selectivity of the Delayed Potassium Conductance of Frog Skeletal Muscle Fibres 177

Gerlach, E., s. Schrader, J., et al. 167

Graham, D. I., s. MacKenzie, E. T., et al. 189

Guesnon, P., s. Bursaux, E., et al. 197

Hales, J. R. S., Fawcett, A. A., Bennett, J. W., Needham, A. D.
Thermal Control of Blood Flow Through Capillaries and Arteriovenous Anastomoses in Skin of Sheep 55

Hammel, H. T., s. Simon-Oppermann, Ch., et al. 213

Harder, D. R., Sperelakis, N.
Membrane Electrical Properties of Vascular Smooth Muscle from the Guinea Pig Superior Mesenteric Artery 111

Hashimoto, K., s. Ochi, R. 1

Hegel, U., s. Fromm, M. 71

Hellman, B., Sehlin, J., Täljedal, I.-B.
Effects of Na^+, K^+ and Mg^{2+} on $^{45}Ca^{2+}$ Uptake by Pancreatic Islets 93

Horster, M.
Loop of Henle Functional Differentiation in vitro Perfusion of the Isolated Thick Ascending Segment 15

Hulsbosch, M. A. M., Binkhorst, R. A., Folgering, H. Th.
Three Successive Steady-State CO_2-Response Curves. No Change of Sensitivity of the Ventilatory Controlling System for CO_2 85

Kille, J. F., s. Schlaefke, M. E., et al. 231

Kinne, R., s. Eveloff, J., et al. 87

Kinne-Saffran, E., s. Eveloff, J., et al. 87

Kinter, W. B., s. Eveloff, J., et al. 87

Klempt, P., Peiper, U.
The Dynamics of Cross-Bridge Movement in Vascular Smooth Muscle Estimated from a Single Isometric Contraction of the Portal Vein: The Influence of Temperature and Calcium 31

Klempt, P., s. Peiper, U., et al. 25

Kots, J. M., s. Berdina, N. A., et al. 149

Kuba, K., Nishi, S.
Characteristics of Fast Excitatory Postsynaptic Current in Bullfrog Sympathetic Ganglion Cells 205

Lafortuna, C. L., s. Saibene, F., et al. 65

Leniger-Follert, E., s. Urbanics, R., et al. 47

Lieberman, E. M.
Effect of External Potassium on the Coupled Sodium: Potassium Transport Ratio of Axons 243

Lin, M. T.
Effects of Sodium Acetylsalicylate on Thermoregulatory Responses of Rats to Different Ambient Temperatures 181

Loeschcke, H. H., s. Schlaefke, M. E., et al. 231

Lübbers, D. W., s. Urbanics, R., et al. 47

Lyngdorf-Henriksen, P., Munck, B. G., Skadhauge, E.
Sodium Chloride Transport Across the Lower Intestine of the Chicken. Dependence on Sodium Chloride Concentration and Effect of Inhibitors 161

MacKenzie, E. T., McGeorge, A. P., Graham, D. I., Fitch, W., Edvinsson, L., Murray Harper, A.
Effects of Increasing Arterial Pressure on Cerebral Blood Flow in the Baboon: Influence of the Sympathetic Nervous System 189

McGeorge, A. P., s. MacKenzie, E. T., et al. 189

Mognoni, P., s. Saibene, F., et al. 65

Mostardi, R., s. Saibene, F., et al. 65

Munck, B. G., s. Lyngdorf-Henriksen, P., et al. 161

Murer, H., s. Eveloff, J., et al. 87

Murray Harper, A., s. MacKenzie, E. T., et al. 189

Naylor, G. R. S.
A Simple Circuit for Automatic Continuous Recording of Microelectrode Resistance 107

Needham, A. D., s. Hales, J. R. S., et al. 55

Nees, S., s. Schrader, J., et al. 167

Nishi, S., s. Kuba, K. 205

Nizet, A.
Inhibition by Indomethacin of the Renal Response to an Acute Saline Load in the Dog 223

Obara, S.
A Low-Cost, High-Precision Scope Calibrator. A Delayed Pulse Generator with an Isolated Output 259

Ochi, R., Hashimoto, K.
The Effect of Procaine on the Passive Electrical Properties of Guinea-Pig Ventricular Muscle 1

Ohhashi, T., s. Sakaguchi, M., et al. 263

Peiper, U., Klempt, P., Schleupner, R.
The Temperature Dependence of Parallel and Series Elastic Elements in the Vascular Smooth Muscle of the Rat Portal Vein 25

Peiper, U., s. Klempt, P. 31

Pette, D., Vrbová, G., Whalen, R. C.
Independent Development of Contractile Properties and Myosin Light Chains in Embryonic Chick Fast and Slow Muscle 251

Poyart, C., s. Bursaux, E., et al. 197

Rantamäki, J., s. Vihko, V., et al. 99

Richardson, P. D. I., Withrington, P. G.
The Effects of Intraportal Infusions of Glucagon on the Hepatic Arterial and Portal Venous Vascular Beds of the Dog: Inhibition of Hepatic Arterial Vasoconstrictor Responses to Noradrenaline 135

Rodionov, I. M., s. Berdina, N. A., et al. 149

Rohlíček, V., s. Suzuki, K., et al. 141

Saibene, F., Mognoni, P., Lafortuna, C. L., Mostardi, R.
Oronasal Breathing During Exercise 65

Sakaguchi, M., Ohhashi, T., Azuma, T.
A Photoelectric Diameter Gauge Utilizing the Image Sensor 263

Salminen, A., s. Vihko, V., et al. 99

Samaržija, I., s. Edelmann, A., et al. 37

Schad, H., Brechtelsbauer, H.
The Effect of Saline Loading and Subsequent Anaesthesia on Thoracic Duct Lymph, Transcapillary Protein Escape and Plasma Protein of Conscious Dogs 127

Schad, H., Flowaczny, H., Brechtelsbauer, H., Birkenfeld, G.
The Significance of Respiration for Thoracic Duct Flow in Relation to Other Driving Forces of Lymph Flow 121

Schlaefke, M. E., Kille, J. F., Loeschcke, H. H.
Elimination of Central Chemosensitivity by Coagulation of a Bilateral Area on the Ventral Medullary Surface in Awake Cats 231

Schleupner, R., s. Peiper, U., et al. 25

Schmidt, I., Simon, E.
Temperature Changes of the Hypothalamus and Body Core in Ducks Feeding in Cold Water 227

Schrader, J., Nees, S., Gerlach, E.
Radioimmunoassay for Adenosine in Biological Samples 167

Sehlin, J., s. Hellman, B., et al. 93

Silva, P., s. Eveloff, J., et al. 87

Simon, E., s. Schmidt, I. 227

Simon, E., s. Simon-Oppermann, Ch., et al. 213

Simon-Oppermann, Ch., Hammel, H. T., Simon, E.
Hypothalamic Temperature and Osmoregulation in the Pekin Duck 213

Skadhauge, E., s. Lyngdorf-Henriksen, P., et al. 161

Sperelakis, N., s. Harder, D. R. 111

Standen, N. B., Stanfield, P. R.
Inward Rectification in Skeletal Muscles: A Blocking Particle Model 173

Stanfield, P. R., s. Gay, L. A. 177

Stanfield, P. R., s. Standen, N. B. 173

Steinhausen, M., Tillmanns, H., Thederan, H.
Microcirculation of the Empimyocardial Layer of the Heart. I. A Method for in vivo Observation of the Microcirculation of Superficial Ventricular Myocardium of the Heart and Capillary Flow Pattern under Normal and Hypoxic Conditions 9

Stoff, J., s. Eveloff, J., et al. 87

Suzuki, K., Rohlíček, V., Frömter, E.
A Quasi-Totally Shielded, Low-Capacitance Glass-Microelectrode with Suitable Amplifiers for High-Frequency Intracellular Potential and Impedance Measurements 141

Täljedal, I.-B., s. Hellman, B., et al. 93

Teisseire, B., s. Bursaux, E., et al. 197

Thederan, H., s. Steinhausen, M., et al. 9

Tillmanns, H., s. Steinhausen, M., et al. 9

Tkhorevsky, V. I., s. Berdina, N. A., et al. 149

Urbanics, R., Leniger-Follert, E., Lübbers, D. W.
Time Course of Changes of Extracellular H^+ and K^+ Activities During and After Direct Electrical Stimulation of the Brain Cortex 47

Vaughn, L. K., Veale, W. L., Cooper, K. E.
Impaired Thermoregulation in Pregnant Rabbits at Term 185

Veale, W. L., s. Vaughn, L. K., et al. 185

Vihko, V., Salminen, A., Rantamäki, J.
Acid Hydrolase Activity in Red and White Skeletal Muscle of Mice During a Two-Week Period Following Exhausting Exercise 99

Vinogradova, O. L., s. Berdina, N. A., et al. 149

Vishnevetskaya, M. A., s. Berdina, N. A., et al. 149

Vrbová, G., s. Pette, D., et al. 251

Warner, R. R.
Compartmental Analysis of Na Efflux Across Ileum Mucosal Membrane 155

Whalen, R. C., s. Pette, D., et al. 251

Withrington, P. G., s. Richardson, P. D. I. 135

Indexed in Current Contents